

In re Patent Application of:

AMMAR

Serial No. 09/862,982

Filing Date: May 22, 2001

In the Claims:

A1/modified
Claim 1 (once amended): A microwave monolithic integrated circuit (MMIC) package comprising:

a single MMIC;

a base plate that is matched as to its coefficient of thermal expansion (CTE) with the MMIC;

a solder preform contained on the base plate, said MMIC being mounted on the solder preform; and

a chip cover covering the MMIC, wherein the base plate and chip cover are configured with respective portions that engage each other and such that any pads on said MMIC are exposed for wire and ribbon bonding thereto, wherein the base plate and MMIC are secured together by a solder flow process from said solder preform.

Claim 2 (original): A microwave monolithic integrated circuit package according to Claim 1, wherein said base plate is formed from one of copper tungsten (CuW) or aluminum silicone (AlSi) alloy.

Claim 3 (original): A microwave monolithic integrated circuit package according to Claim 1, wherein said base plate is about 10 to about 15 mil thick.

Claim 4 (original): A microwave monolithic integrated circuit package according to Claim 1, wherein said chip cover is formed of plastic.

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Amended
Claim 5 (original): A microwave monolithic integrated circuit package according to Claim 1, wherein said solder preform is formed from a gold-tin alloy.

Claim 6 (original): A microwave monolithic integrated circuit package according to Claim 1, wherein said solder preform is about 1 to about 2 mil thick.

Claim 7 (original): A microwave monolithic integrated circuit package according to Claim 1, wherein said base plate and chip cover are secured to each other by the solder preform during a solder flow process.

Claim 8 (original): A microwave monolithic integrated circuit package according to Claim 1, wherein said base plate includes side rails that engage said chip cover.

Claim 9 (original): A microwave monolithic integrated circuit package according to Claim 1, wherein and said chip cover includes overlap rails that engage said chip cover.

Claim 10 (once amended): A microwave monolithic integrated circuit (MMIC) package comprising:

a single MMIC;

a substantially rectangular configured base plate that is matched as to its coefficient of thermal expansion

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(CTE) with the MMIC, said base plate including opposing side rails that extend along a portion of formed edges;

a solder preform contained on the base plate, said MMIC being mounted on the solder preform; and

a chip cover covering the MMIC, and secured on said side rails of said base plate, and having overlap legs extending down to said base plate, wherein the base plate, side rails, chip cover and overlap legs are configured such that any pads on said MMIC are exposed for wire and ribbon bonding thereto.

Claim 11 (original): A microwave monolithic integrated circuit package according to Claim 10, wherein said base plate is formed from one of copper tungsten (CuW) or aluminum silicon (AlSi) alloy.

Claim 12 (original): A microwave monolithic integrated circuit package according to Claim 10, wherein said base plate is about 10 to about 15 mil thick.

Claim 13 (original): A microwave monolithic integrated circuit package according to Claim 10, wherein said solder preform is about 1 to about 2 mil thick.

Claim 14 (original): A microwave monolithic integrated circuit package according to Claim 10, wherein said base plate and MMIC are secured together by a solder flow process with said solder preform.

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cont* Claim 15 (original): A microwave monolithic
integrated circuit package according to Claim 10, wherein said
base plate and top cover are secured together by a solder flow
process with said solder preform.

Claims 16-20 (cancelled)